

ALLEN&HEATH

ALL RANGES

LARGE FORMAT
LIVE SOUND **MIXERS**

SMALL FORMAT
LIVE SOUND **MIXERS**

DJ PRODUCTS

SOUND MANAGEMENT
SYSTEMS

ALLEN&HEATH

Kernick Industrial Estate
Penryn · Cornwall
TR10 9LU · UK

tel: +44 (0)1326 372070
fax: +44 (0)1326 377097

email:
sales@allen-heath.com
website:
www.allen-heath.com
www.xone.co.uk

Allen & Heath reserve the right to alter any
information supplied in this document or any
other documentation supplied hereafter.

AP5908 issue 2

PRODUCTS

dj



ALLEN&HEATH

When you buy an **A&H XONE** you are not just buying a DJ mixer, you're getting 35 years of professional audio experience distilled into one beautifully engineered DJ instrument, designed to allow you to produce your best performance every time.

Throughout our 35 years, we have been designing and engineering innovative, affordable high performance live sound and recording mixers. Over the last few years, we have brought our unique skills to the DJ market and have developed a range of world-class mixers to suit every DJ and every style. Xone mixers are intended for people who care about the performance they deliver, and who want to give their audience the very best experience, night after night. The benchmark for excellence in DJ mixers has been well and truly set.



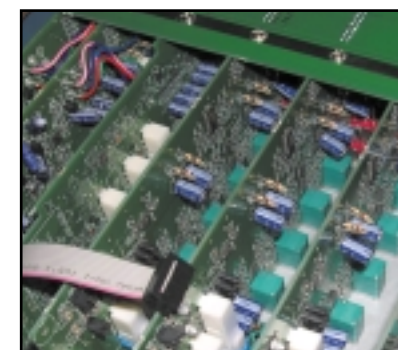
VCA crossfaders

XONE mixers are equipped with high quality dual rail gold contact crossfaders. The crossfader is used as a DC controller for the VCA (voltage control amplifier) rather than as an audio attenuator. This means that the audio signal is not affected by any wear or degradation to the crossfader as the fader is only providing the low voltage DC control signal to the VCA, through which the audio signal is being passed.

Construction

35 years of designing live sound mixers has taught us how to make a product that can survive the rigours of life on the road. Many products described as 'professional' have all their components assembled onto one flat PCB, mounted parallel to the front panel, with the controls mounted at right angles to the PCB and sticking through the panel. Any impact onto the controls will be transmitted straight onto the PCB with failure the likely result. Also, any liquid spills will of course accumulate and cause damage.

We do things a little differently: all our mixers are internally modular, all the channel PCBs are mounted at right angles, and with the controls bolted directly to the front panel. In this way any impact is absorbed through the steel chassis and any liquid that does find its way into the mixer will run off the PCBs.



Power supplies

The **XONES** employ internal, auto-sensing switch mode power supplies, providing quiet, high voltage DC output rails with ample current reserve. This ensures sufficient headroom is available throughout the signal path to prevent clipping - even with very high signal levels. The auto-sensing power supply is also a boon to any DJ who is touring the world as it automatically adjusts to any mains voltage from 90 volts to over 250 volts at either 50 or 60Hz.

The **V6** is the exception to this format because of the high voltage and current demand of its class-A circuitry and system expandability. An internal supply is impractical, so it is powered by the hybrid linear MPS6, which combines the advantages of both linear and switch mode technology.

Components

All **XONE** products use pro-specification components from leading manufacturers such as Penny & Giles, Alps and Analog Devices. We do not subscribe to the opinion that DJ mixers don't need to be built to the same standard as professional audio equipment; far from it: our experience has taught us that frequently higher specification parts are required in order to cope with the harsh environments and enthusiastic use our mixers are often subjected to.



Voltage control filters

The heart of the **XONE** range since it was launched is the powerful and easy to use voltage control filter system.

Based on the "state variable filter" circuit similar to that found in many classic analogue synths, but using modern high performance and stable technology, these stereo filters provide live performance tools far more powerful than any equaliser or kill switch.

Operating over the entire audio spectrum of 20Hz to 20kHz the system outputs three

frequency correlated filter types; high-pass, band-pass and low-pass. A resonance control, which adjusts the amount of feedback within the filter circuit, contours the response of the filter at its cut-off frequency, changing the filtered sound from subtle to extreme.

All of the filter controls are "soft switched" so that they can be punched in and out live without causing voltage transient clicks, and different filters can be selected together to create further types such as notch and all-pass.



XONE V6 & S6



MPS6

Power supply for the V6



MPS7

Power supply for the S6



XONE:V6

We designed the **XONE:V6** for those who do not want to compromise when it comes to audio fidelity. Whilst the feature set is minimalist, it includes the essential elements required to perfectly blend tracks: accurate signal level metering, an "intelligent" cue system, high-pass filters and superb P&G rotary faders.

Using esoteric hi-fi techniques, the main audio path from input to output is fully discrete, operating in true class-A configuration and with an unprecedented 60 volt power rail to ensure high headroom (a staggering 28dB through the input channels). The **V6** is easily the most transparent-sounding DJ mixer ever designed.

With its solid, machined aluminium front panel and genuine Bakelite-cased VU meters, the **V6** reflects a time when products were made to a specification rather than a price.

XONE:S6

The **XONE:S6** has been introduced to make the sonic purity and top-class performance of the **XONE:V6** accessible to a wider audience. Built with exactly the same components as the **V6** it boasts all the same features, with the exception of the valve preamps, which only the **XONE:V6** has available.

Two options to augment the capabilities of the **XONE:V6** and **XONE:S6** are available - details of the EQ Isolator and Crossfader units can be found on page 16

XONE:V6 + S6		Unpacked	Packed
mm(")	Width	483 (19)	610 (24)
mm(")	Height	181 (7.1)	370 (14.5)
mm(")	Depth	178 (7.1)	300 (12)
kg(lb)	Weight	7.5 (16)	14 (31)

FEATURE LIST

- 6 dual stereo channels**
With switchable sources and individual gain controls
- Valve preamp**
XONE:V6 only, on all channels 1-6
- High pass filter**
On each channel
- Intelligent cue system**
With tone control and blue LEDs
- Insert points**
For EQ Isolator and Crossfader options
- Booth monitor**
On Balanced XLR
- Microphone input**
With phantom power, EQ and level controls
- Separate auto sensing PSU**
MPS6 (**XONE:V6**)
MPS7 (**XONE:S6**)
- Rotary faders**
High quality P&G oil-damped precision
- Outputs**
Main output on balanced XLR, jack and RCA
- Meters**
Retro-style channel and main output meters



XONE 92



As designers of the world's most innovative DJ mixers, we know how crucial flexibility and creativity are for the DJ. As the new generation of DJ's has grown ever more sophisticated, we wanted to respond by offering them more options and allowing them the freedom to create.

XONE:92 is the embodiment of the ultimate DJ tool, the heart of the performance. It's a versatile mixer that promises to fulfill every wish list, with features to suit all styles from breakbeat to techno, trance to house.

From the exciting new MIDI output capability, which allows control over external devices such as Ableton Live audio sequencing software or the Korg Kaoss Pad, to the innovative way the two independent VCF filters can be used together, this mixer is a DJ's dream tool. Of course, the **XONE:92** is built with the superb sound and build quality the **ALLEN & HEATH XONES** are famed for.

ROTARY OPTION

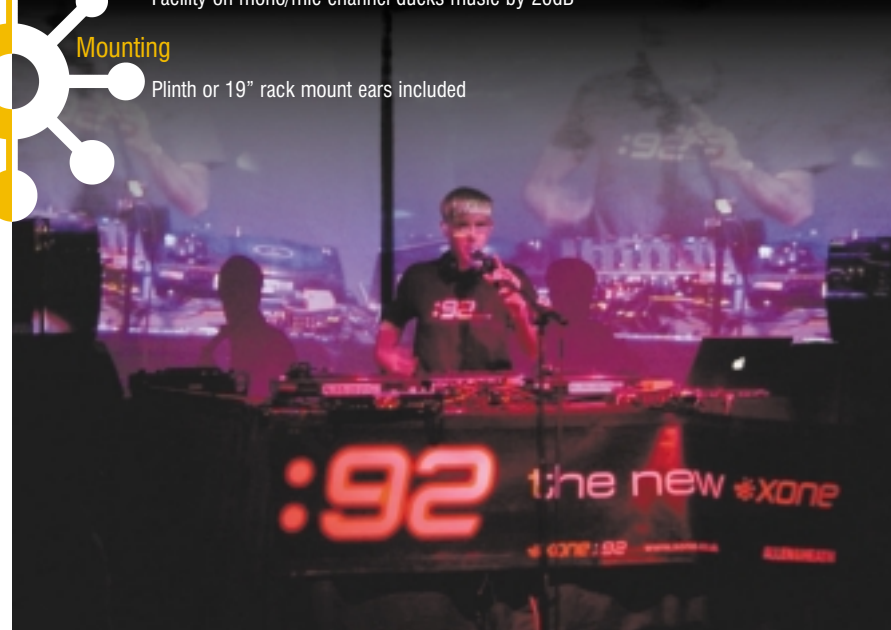
Also available - the **XONE:92R** - with rotary VCA faders instead of linear



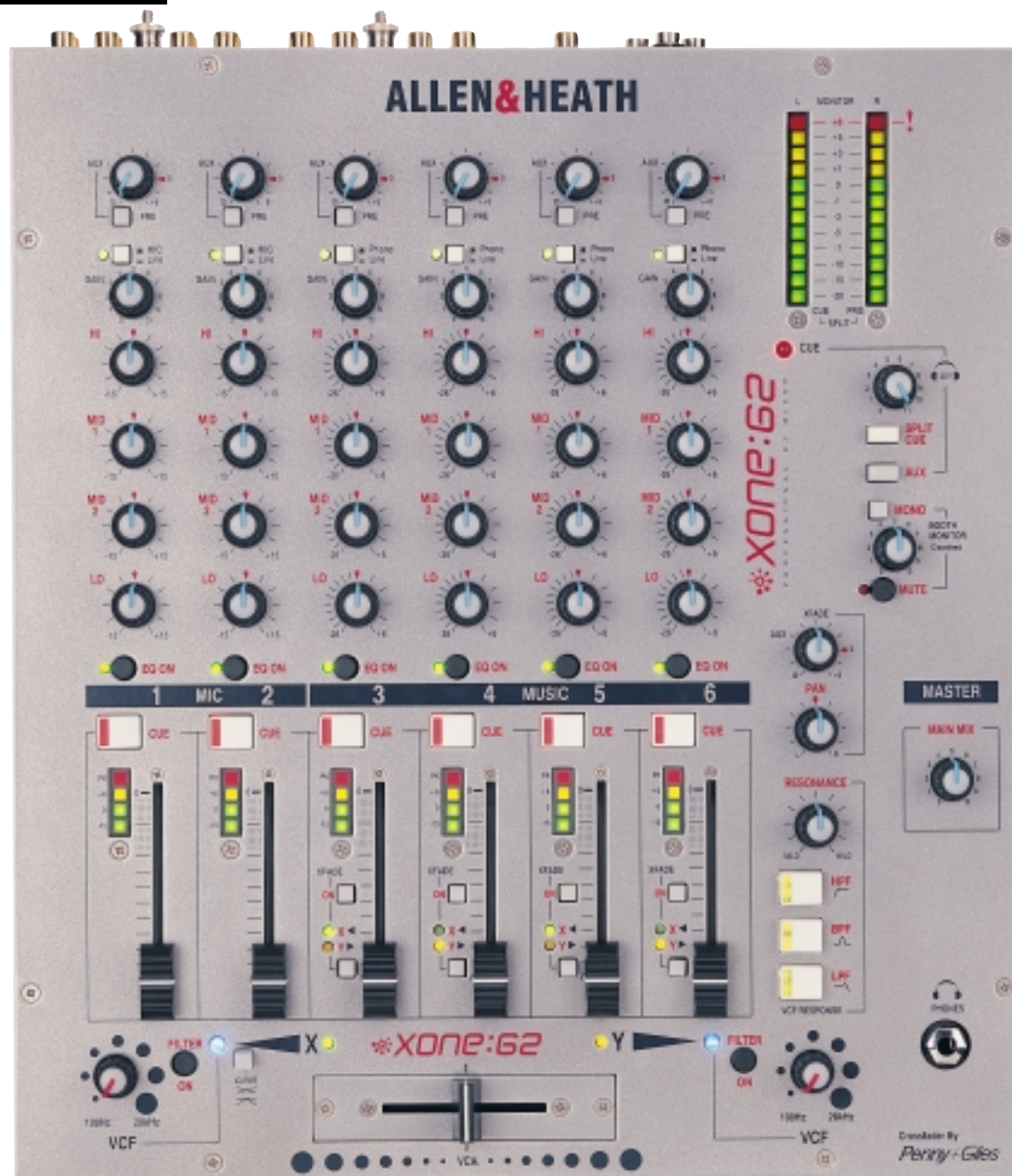
	XONE:92	Desk mount	Rack ears (1)	Rack ears (2)	Packed
mm (")	Width	320 (12.6)	370 (14.6)	483 (19)	470 (18.5)
mm (")	Height	87.6 (3.5)	87.6 (3.5)	87.6 (3.5)	210 (8.3)
mm (")	Depth	358 (14)	358 (14)	358 (14)	400 (15.7)
kg (lb)	Weight	6 kg (13)			8 (18)

FEATURE LIST

- 6 dual stereo channels**
 - 4 phono/line, 2 mono/mic or stereo return
- Stereo mix outputs**
 - 2 independent outputs (1 XLR, 1 TRS)
- 2 Auxiliary sends**
 - For output to external effects devices
- Voltage Controlled Filters**
 - 2 stereo filters with independent in/out, frequency and resonance controls
- 4 band EQ**
 - Infinite kill on HF and LF; wide Q for cut, narrow Q for boost.
- Booth output**
 - Dedicated output on TRS jack
- MIDI**
 - Midi values can be output from six mixer controls
- VCA crossfader**
 - P&G professional crossfader
- Low Frequency Oscillator**
 - Two independent LFO's manipulate the VCF's
- Custom illumination**
 - Lightpipes show status of performance controls
- Cue system**
 - Intelligent system for pre or post EQ monitoring
- Monitor section**
 - Includes post EQ switch; split cue and mix to cue balance
- Headphone output**
 - 2 x headphone outputs 1/4" and 3.5mm jack
- Ducking**
 - Facility on mono/mic channel ducks music by 20dB
- Mounting**
 - Plinth or 19" rack mount ears included



XONE62



This 6-channel professional DJ mixer has become the industry standard for club and bar installations worldwide. As a purebred club mixer, it has truly raised the bar in terms of DJ mixer audio quality and has also quickly become the mixer of choice for many of the world's greatest DJ's, thanks to its pristine sound and creative tool set.

The mixer is bristling with features to make DJ's drool: from the 4 band EQ - which means you can get more creative with your mix - to the phenomenal VCF filters; the aux send to incorporate external FX into the mix; the 10 stereo inputs, which allow connection to up to 4 turntables and 2 mics with keyboards, samplers, CD and MP3 players; and the split cue feature, allowing you to hear the main mix in one ear and the track you're cueing in the other.

If you're a club or bar owner and want to install a mixer which any DJ would be ecstatic to find in the DJ Box, this mixer's for you. And if you're a DJ who simply wants to be taken seriously, take a **XONE:62**.

FEATURE LIST

- 6 dual stereo channels**
 - RIAA preamps for turntables on 4 inputs, XLR/TRS jack on 2
- Stereo mix outputs**
 - Balanced mix outputs on XLR with level control
- Auxiliary send**
 - From every channel for monitoring or effects sends
- Outputs**
 - Booth monitor, headphone and RCA recording outputs
- Voltage Controlled Filters**
 - 2 independent stereo filters with frequency and resonance control
- 4 band EQ**
 - Stereo channels have +6dB boost to preserve headroom and -26dB cut for creative mixing
- VCA crossfaders**
 - P&G professional crossfader
- Monitor section**
 - Independent per-channel cue selection, split cue and aux monitor. Ships with channel cue routed as post-EQ to headphones
- Mounting**
 - Desk, custom rack or 19" rack mount
- Power Supply**
 - High performance Internal switch-mode supply

	XONE:62	Without rack ears	With rack ears	Packed
mm(")	Width	320 (12.6)	370 (14.6)	475 (18.7)
mm(")	Height	105 (4.1)	105 (4.1)	210 (8.3)
mm(")	Depth	358 (14.1)	358 (14.1)	395 (15.6)
kg(lb)	Weight	5 kg (11)		5.5 (12)



XONE 464



When we decided to build a club mixer, we wanted to satisfy club techs and DJs alike. **XONE:464** naturally shares its construction methods with our pro touring desks, so venues may depend on it for outstanding audio and reliability. Its unique analogue filters and 4 band asymmetric EQ also make it an incredibly creative tool that DJs really enjoy using. We also included a set of 4 fully-featured mic/line inputs, which is great for venues running small live sets as well as DJs, or for those pioneering artists who are mixing live and recorded sources.

This was the first **XONE**, and it paved the way for further DJ product developments - its build and sound quality mean that it's still the first choice for venues where DJ's and engineers are serious about their music.

Quick Change Connectors (QCC)
ALLEN & HEATH's unique quick-change connector system allows the swift reconfiguration of the mixer from desktop, rack or flightcase mounting due to a hinged connector panel

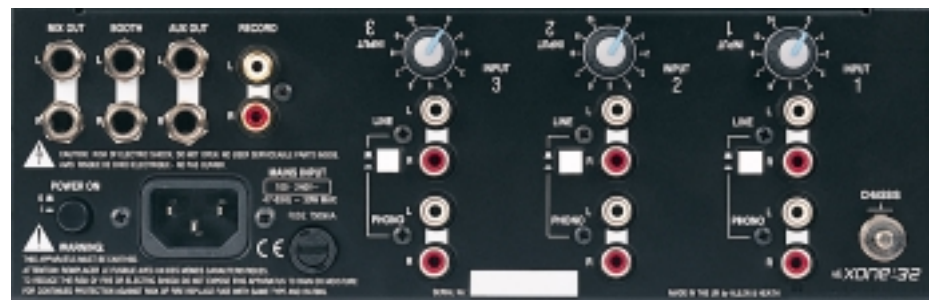
	XONE:464	Desk mount	Rack Mount	Packed
mm(")	Width	483 (19)	483 (19)	610 (24)
mm(")	Height	192 (7.6)	444 (17.5)	590 (23)
mm(")	Depth	530 (20.9)	135 (5.32)	260 (10)
kg(lb)	Weight	10 (22)		13 (29)

FEATURE LIST

- 4 mono channels**
Fully-featured mono/mic performance channels with 100mm faders
- 6 dual stereo channels**
2 sources per channel, RCA and TRS.
- Stereo mix outputs**
2 independent outputs on XLR or TRS, with full metering
- 6 Auxiliary sends**
From every channel for monitors or effects sends
- Outputs**
4 stereo, 2 mono zone outputs with rotary control
- Voltage Controlled Filters**
2 independent stereo filters with frequency and resonance control
- 4 band EQ**
Stereo channels have +6dB boost to preserve headroom and -26dB cut for creative mixing
- Monitoring**
Includes 2 headphone outputs, split cue, mono sum button, booth output
- VCA crossfader**
P&G professional crossfader
- Monitor section**
Comprehensive booth monitor system allows you to listen to any mix, aux output, or cue source
- Sys-Link**
Connect to other A&H desks via Sys-Link option
- Mounting**
Desk or 19" rack mount - rotating connector pod
- Power Supply**
High performance Internal switch-mode supply



XONE32



This is a professional 3-channel mixer which packs some serious punch. It's one of the few small-format mixers around which is actually good enough for installation in proper clubs, although it will find favour with DJ's who will find it an invaluable part of their set up - and compact enough to carry around.

It sounds clean and clear, with a feature set second to none at this level; the legendary **XONE** voltage control filter (VCF) is included, with high-pass, band-pass and low-pass filter switching, resonance control and low frequency oscillator (with x2 control). The revolutionary 'Transmute' button is an intelligent control, which either punches in or out the other channel depending on the position of the crossfader.

The other unique control on this mixer is the digital recall settings (DRS) so that the filter settings can be committed to one of four digital memories. When you consider there's also an aux send, crossfader contour control, headphone and microphone sockets, it's easy to see why reviewers have said, 'Serious but fun loving' and 'Nothing comes close'.

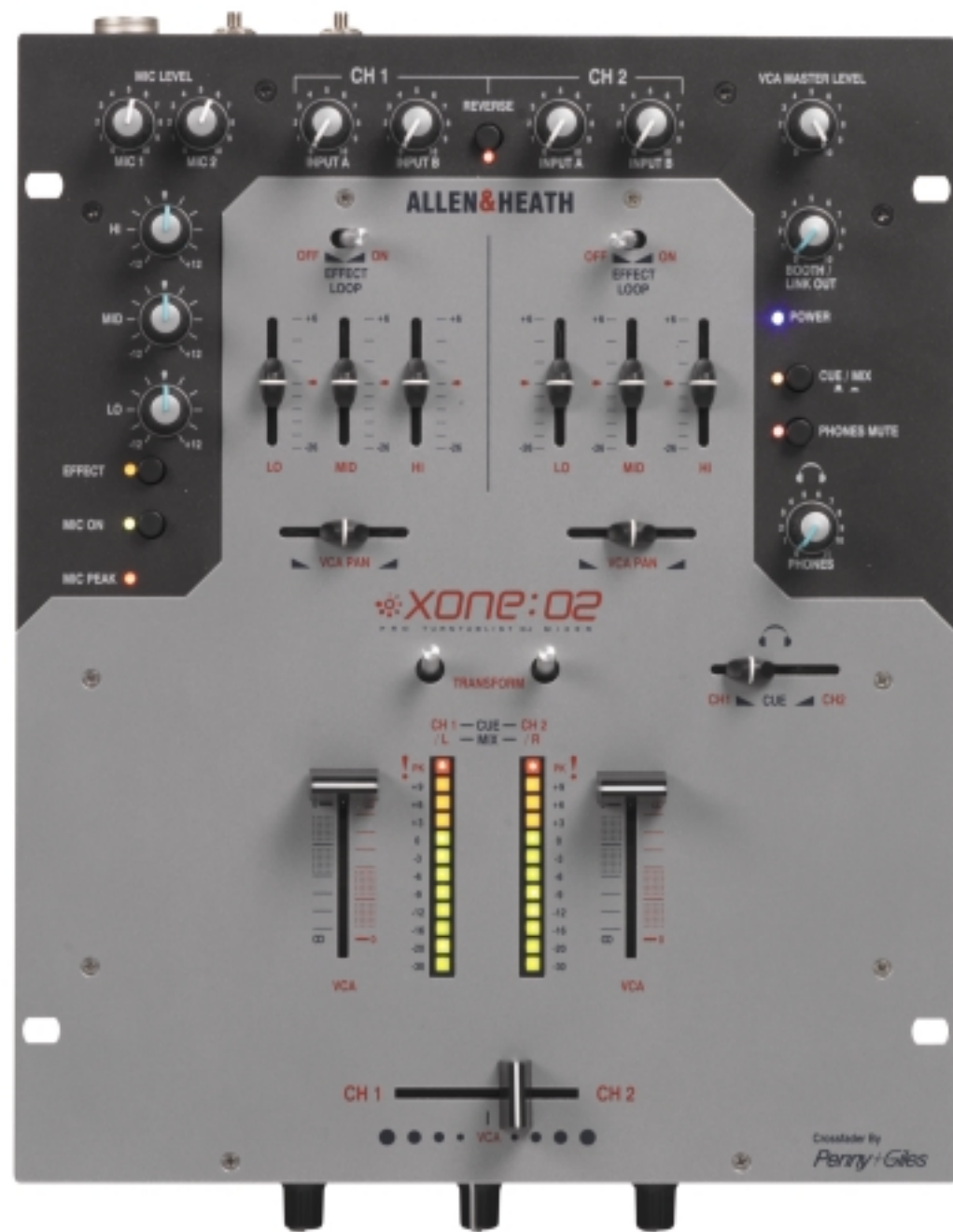
	XONE:32	Without Rack ears	With Rack ears	Packed
mm(")	Width	257 (10.1)	307 (12.1)	475 (18.7)
mm(")	Height	89 (3.5)	89 (3.5)	210 (8.3)
mm(")	Depth	358 (14.1)	358 (14.1)	395 (15.6)
kg(lb)	Weight	4 (9)		5 (11)

FEATURE LIST

- 3 dual stereo channels**
2 RCA sources per channel
- Stereo mix outputs**
Professional balanced output on 1/4" TRS Jack
- Auxiliary send**
From every channel for monitors or effects sends
- Voltage Controlled Filter**
Stereo filter with frequency and resonance control
- LFO**
Low Frequency Oscillator
- DRS**
4 x Digital Recall Settings save type of filter, LFO and 'on' settings
- 3 band EQ**
Stereo channels have +6dB boost to preserve headroom and -26dB cut for creative mixing
- VCA crossfader**
With contour control, reverse and bypass switches
- Intelligent Transmute Control**
On either side of xfader - punches opposite side in or out
- Engineer's/DJ's toolbox**
High powered headphone socket, booth output, 12-bar metering
- Mic input**
On XLR connector; gain control and high-pass filter included
- Power Supply**
High performance Internal switch-mode supply



XONE02



We created **XONE:02** to be the world's greatest battle/scratch mixer. Every fader is a deluxe VCA design, they are all reversible, all have contour controls, and they can all be easily replaced by removing the steel faceplate.

The fader area has been cleared for action and other controls are out of the way at the top of the mixer, and even the transform switches can be rotated to work the way you like them. The mixer is not the same as all the other standard scratch mixers around - it's taken years of experience to achieve this level of sound quality. This mixer's designed for any amount of rough handling a scratch DJ can throw at it.

FEATURE LIST

2 dual stereo channels

2 sources per channel, RIAA input can be switched to line

Stereo mix outputs

professional balanced output on XLR

3 band EQ

Stereo channels have +6dB boost to preserve headroom and -26dB cut for creative mixing

Inputs to the mix

4 stereo and 2 mono inputs to the mix at once

VCA crossfader

High quality Penny & Giles crossfader with contour control and reverse switches

VCA channel faders

Gold-plated dual rail VCA faders throughout

FX Loop

Both channels have an effect loop with insert point

Booth output

RCA output can be used as a record feed or 'link' to daisy chain mixer

Transform switches

Rotatable switches mute performance channels

Mic inputs

2 inputs on XLR connector with gain control, 3 band EQ and high-pass filter

Power Supply

High performance Internal switch-mode supply

XONE:02		Unpacked	Packed
mm(")	Width	262 (10.3)	475 (18.7)
mm(")	Height	90 (3.5)	210 (8.3)
mm(")	Depth	320 (12.6)	395 (15.6)
kg(lb)	Weight	4.5 (10)	5 (12)



XONE VF-1 Analogue Filter



The **XONE VF-1** is a 1U rack analogue stereo filter unit intended for live and studio use, that can interface with any mixer to create and manipulate sophisticated audio filtering. It offers the artist control over the music and the creative experience, combining superior sounding filtering offering warmth, clarity and depth with the features and control of digital equipment.

The **VF-1** boasts an envelope follower, an LFO with both triangle and square wave outputs and resonance control with automatic limiter circuits. Also included is valve overdrive circuitry, so a single control enables the user to “dial in” an amount of valve “warmth” while maintaining a constant output level. The **VF-1** is MIDI-equipped, so it can manipulate external MIDI equipment as well as be controlled from external MIDI equipment itself - offering exceptional flexibility from an analogue filter.

It's a great sounding unit with lots of possibilities for creativity, and is a great tool for DJ's as well as being ideal for just about anyone making music.

As standard, the **VF-1** is supplied with RCD inputs for live level input; the **VF-1R** with RIAA inputs for direct connection to turntables is also available.

EQ ISOLATOR



The **XONE:V6** EQ Isolator is a dual, 3 band stereo isolator, providing variable attenuation of Low, Mid and High frequencies. The unit has been designed to complement the high standards of sonic performance of the **XONE:V6**, allowing any two channels to be assigned to the filters simultaneously.

- **3 frequency bands:**
 - Low** (Fixed 3-pole shelf) -3dB 350Hz
 - Mid** (Fixed notch) 1.2kHz
 - High** (Swept low pass) 20Khz-300Hz
- **6 inputs and outputs via RCA phono**
- **Power:** supplied through the mixer

CROSS FADER



The **XONE:V6** Crossfader rack module adds crossfading capability to the **XONE:V6**, allowing the user to select any input to either side of the crossfader when required. Utilising a Penny & Giles conductive plastic crossfader and high performance voltage controlled attenuators, the module interfaces with the **XONE:V6** via channel insert points.

- **Smooth, light action crossfader, removeable for servicing**
- **X-off-Y assign switches**
- **mix/scratch switch to change crossfader response curve**

FEATURE LIST

XONE VF-1

3 Filters

Three different filter types provided: high-pass, band-pass and low-pass, or selected together to create further types, eg a notch filter. All of the filter controls are “soft switched” to prevent clicks during performance.

Invert Filter

Inverted filter signal can be summed with the non-filtered input signal and routes the remainder to TRS jack outputs, producing unusual and subtle sounds, especially if routed to an effects unit.

Resonance

Allows sharpness of the filter to be adjusted from a gentle roll off for a subtle filter sound, to near oscillation at maximum. Automatic Resonance Control (ARC) monitors filter output and automatically reduces the resonant peaks of high signal levels

Valve

A valve (tube) input stage with drive control, allowing the signal level to be progressively increased in order to create strong second harmonics. Adds warmth to a mix or for fattening up thin, reedy bass sounds. Automatic gain reduction maintains a near constant output level as the overdrive is increased

Envelope Follower

Allows filter cut-off frequency to be modulated by the intensity of the input signal - used to create interesting effects with drum loops and bass lines. May be switched into the valve overdrive circuits to give intensity modulated overdrive.

LFO

The low frequency oscillator with square/triangle waveforms completes the modulation toolbox for the filter system.

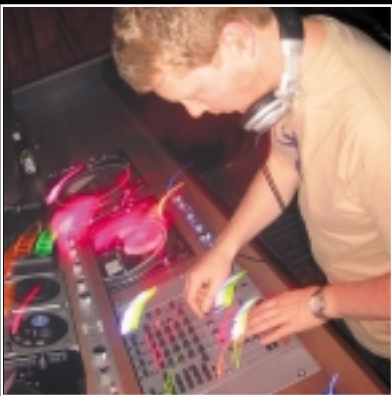
Midi

MIDI signals are sent and received, allowing filter frequency, filter type, and on/off status to be remotely controlled or saved to a sequencer. Can be configured to operate in several different modes; eg to allow it to interface to other MIDI equipment



TECHNICAL SPECIFICATIONS

	XONE:02	XONE:32	XONE:62	XONE:92	XONE:464	XONE:V6/S6	XONE:VF-I
Operating Levels							
Main Outputs	0dBu Headroom +20dB	0dBu Headroom +20dB	+4dBu Headroom +22dB	+4dBu Headroom +20dB	+4dBu Headroom +22dB	+4dBu Headroom +24dB	+4dBu Headroom +22dB
Booth Output	0dBu Headroom +20dB	-2dBu Headroom +22dB	-2dBu Headroom +22dB	-2dBu Headroom +22dB	-2dBu Headroom +22dB	+4dBu Headroom +24dB	N/A
Effect Send output	0dBu Headroom +21dB	-2dBu Headroom +22dB	-2dBu Headroom +22dB	+4dBu Headroom +22dB	-2dBu Headroom +22dB	N/A	N/A
Maximum output	+23dBu	+20dBu	+20dBu	+25dBu	+26dBu	+28dBu	+26dBu
Mic Pre-Amp Sensitivity	-50 to -10dBu	-45 to -15dBu	-45 to -20dBu	-45 to -10dBu	-58 to +8dBu	-58 to -5dBu	N/A
RIAA input sensitivity	7-140mV 47K/330pF	7-100mV 47K/330pF	7-100mV 47K/330pF	4-180mV 47K/330pF	7-100mV 47K/330pF	7-100mV 47K/330pF	N/A
Stereo Line input sensitivity	-15 to +22dBu	-15 to +22dBu	-10 to +8dBu	-20 to +10dBu	-10 to +8dBu	-10 to +20dBu	
Frequency Response (20Hz-30KHz)							
Mic to Main output (+40 dB)	+0/-2dB	+0/-12dB(lo-cut filter)	+0/-0.5dB	+0/-10dB (low cut filter)	+0/-1dB	+0/-1dB	N/A
Line to Main output (0dB)	+0/-2dB	+0/-1dB	+0/-0.5dB	+/-0.5dB	+0/-0.5dB	+/-0dB (Flat)	+0/-0.5dB
Distortion at 1KHz +0VU out							
THD + Noise (mic in +40dB gain)	<0.04%	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%	<0.002% (Filter OFF)
THD + Noise (line in 0dB gain)	<0.04%	<0.04%	<0.008% (crosstader not routed)	<0.03%	<0.008% (crosstader not routed)	<0.02%	N/A
Common Mode Rejection @1KHz							
Mic Input +40dB gain	>-76dB	>-50dB	>-76dB	>-76dB	>-72dB	>-90dB	
Crosstalk @1KHz							
Adjacent Channel	<-90dB	<-90dB	<-90dB	<-90dB	<-90dB	<-100dB	
Mute Shutoff	<-95dB (Transform)	N/A	N/A	N/A	<-80dB	N/A	
Fader Shutoff	<-85dB	<-82dB	<-80dB	<-95dB	<-80dB	<-95dB	
Noise Performance (22Hz-22KHz unweighted)							
Mic EIN with 150ohm source	-129dB	-126dB	-126dB	-126dB	-128dB	-128dB	
Residual output noise - main outputs	<-88dBu	<-100dBu	<-94dBu	<-95dBu	<-90dBu	<-98dBu	<-100dBu (Filter OFF) <-85dBu/89dBu S/N (Filter ON)
Main Mix noise	<-81dBu (81dB S/N)	<-84dBu (84dB S/N)	<-80dBu (84dB S/N)	<-80dBu (84dB S/N)	<-80dBu (84dB S/N)	<-90dBu (94dB S/N)	
Connection Impedances							
Mic Inputs	<2K ohms	<2K5 ohms	<2K ohms	<2K ohms	<2K ohms	<2K ohms	
Line Inputs	>20K ohms	>10K ohms	>15K ohms	>15K ohms	>10K ohms	>10K ohms	>9K ohms
Outputs	<47 ohms	<47 ohms	<47 ohms	<47 ohms	<47 ohms XLR 68 ohms jack	<100 ohms	<50 ohms
Record out		340 ohms +15dBu max	400 ohms +15dBu max	600ohms +15dBu max	600ohms +15dBu max	-10dBv 410 ohms	
Equalisation							
Gain (each band) Stereo EQ	+6dB/-26dB 12dB/oct 3 Band	+6dB/-26dB 3 Band	+6dB/-26dB 4 Band	+6dB/-inf(LF/HF) +6dB/-30(MF) 12dB/oct 4 Band	+6dB/-26dB 4 Band	+/-6dB	
Gain (each band) Mono (mic) EQ	+/- 12dB	+/- 12dB	+/-15dB	+/-15dB	+/-15dB semi parametric	+/-6dB	
Filter	N/A	100Hz-20KHz VCF with LFO	100Hz-20KHz Dual VCF	30Hz-20KHz 2x independent VCF + LFO	100Hz-20KHz Dual VCF	20Hz-600Hz swept high-pass per channel	
Metering							
Reading referred to Main outputs	0VU=0dBu (12 pt)	0VU=0dBu (3 pt ch,12 pt master)	0VU=0dBu (3 pt ch,12 pt master)	0VU=+4dBu (9 pt ch & master)	0VU=+4dBu (3 pt ch,12 pt master)	0VU=+4dBu (8 pt ch, VU masters)	
Peak indication threshold	8dB before clipping	12dB before clipping	6dB before clipping	6dB before clipping	6dB before clipping	14dB before clipping	
System							
Power supply	Internal Universal input	Internal Universal input	Internal Universal input	Internal Universal input	Internal Universal input	MPS6/MPS7 Hybrid external	Internal Universal input
Power Consumption	30W Max 10W nominal	30W Max 10W nominal	30W Max 15W nominal	35W Max 18W nominal	30W Max 20W nominal	75W Max	30W Max
Connections							
XLR Inputs		Female	Pin2 = +ve polarity	Pin3 = -ve polarity	Pin1 = ground	Chassis = chassis	
XLR Outputs		Male	Pin2 = +ve polarity	Pin3 = -ve polarity	Pin1 = ground	Chassis = chassis	
1/4" TRS Jack, Balanced Input, Insert Return		Socket	Tip = +ve polarity	Ring = -ve polarity	sleeve = ground/chassis		
1/4" TRS Jack, Balanced Output, Insert Send		Socket	Tip = +ve polarity	Ring = -ve polarity	sleeve = ground/chassis		
1/4" TRS Jack, Insert (unbalanced)	Socket	Tip = send signal	Ring = return signal	sleeve = ground/chassis			
1/4" TRS Jack, Unbalanced Input	Socket	Tip = signal		sleeve = ground/chassis			
RCA Phono		Socket	Tip = signal		Outer = ground/chassis		
MIDI				5 pin DIN			5 pin DIN



Users by being shown do not necessarily imply endorsement